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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

04/08/2009

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314 EXAMINER

ZHOU, TING

ART UNIT PAPER NUMBER

2173

DATE MAILED: 04/08/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901.275	07/09/2001	Arnd Krusche	282845LIS8X	7558

TITLE OF INVENTION: METHOD FOR CONTROLLING NETWORK DEVICES VIA A MMI

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$1510	\$1510	07/08/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,275	07/09/2001		Arnd Krusche		282845US8X	7558
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DUI	E DATE DUE
nonprovisional	NO	\$1510	\$0	\$1510	\$1510	07/08/2009
EXAMINI	ER	ART UNIT	CLASS-SUBCLASS	1		23.20.200
ZHOU, TI	ING	2173	715-853000	J		
1. Change of correspondenc	e address or indication	of "Fee Address" (37	2. For printing on the p	atent front page, list		
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3. ASSIGNEE NAME AND						
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5. Change in Entity Status	(from status indicated	above)	overpayment, to Depos	it Account Number	(enclose a	n extra copy of this form).
a. Applicant claims SI	MALL ENTITY status	See 37 CFR 1.27.	☐ b. Applicant is no long	er claiming SMALI	ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee and Puinterest as shown by the reco	ablication Fee (if requi ords of the United State	red) will not be accepted s Patent and Trademark	from anyone other than the Office.	e applicant; a regist	ered attorney or agent; or th	ne assignee or other party in
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09/901,275 07/09/2001 Arnd Krusche 282845US8X 7558 22850 7590 04/08/2009 EXAMINER ORLON SPIVAK MCCLELLAND MAJER & NEUSTADT P.C ZHOU, TING				ATTORNEY DOCKET NO.	CONFIRMATION NO.	
22850 /590 04/08/2009	09/901,275	07/09/2001	Arnd Krusche	282845US8X	7558	
ORLON SPIVAK MCCLELLAND MAIER & NELISTADT P.C. ZHOU, TING	22850	7590 04/08/2009		EXAM	INER	
	OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.			ZHOU, TING		
	1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER		
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

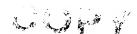
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 187 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 187 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

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	Application No.	Applicant(s)	
	09/901,275	KRUSCHE ET AL.	
Notice of Allowability	Examiner	Art Unit	
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The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS			<u> </u>
herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	i) or other appropriate commu RIGHTS. This application is s	nication will be mailed in due cour	se. THIS the initiative
1. This communication is responsive to <u>06/18/08</u> .			
2. The allowed claim(s) is/are <u>48-69</u> .			
 3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Applicatior	n No	from th e
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON'THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file MENT of this application.	a reply complying with the require	ments
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 	nitted. Note the attached EXA es reason(s) why the oath or	MINER'S AMENDMENT or NOTIC declaration is deficient.	CE OF
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) 	son's Patent Drawing Review . s Amendment / Comment or i	n the Office action of	d) of
each sheet. Replacement sheet(s) should be labeled as such in (the header according to 37 CFR	1.121(d).	,) OT
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Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's S	tatement of Reasons for Allowanc	æ.



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DETAILED ACTION

1. The Request for Continued Examination (RCE) filed on 18 June 2008 under 37 CFR 1.53(d) based on parent Application No. 09/901,275 is acceptable and a RCE has been established. An action on the RCE follows.

2. The amendments filed on 18 April 2008, submitted with the filing of the RCE have been received and entered. Claims 48-69 as amended are pending in the application.

PROPOSED EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. James Love (Reg. No. 58,421) on 26 March 2009.

4. The application is amended as follows:



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a. Replace the Abstract with the follows:

A method of controlling network devices via a man-machine interface including determining a connection of one or more devices to a network, determining availability of one or more multimedia services available via a respective one of the connected devices, and displaying a hierarchical view representative of one or more of the connected devices and one or more of the available multimedia services.



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b. The specification is amended as follows:

- i. Replace the heading "Description" at the top of page 2 with the heading -- BACKGROUND OF THE INVENTION--.
- ii. Add the heading --1. Technical Field -- above line 1 on page 2 (underneath BACKGROUND OF THE INVENTION).
- iii. Add the heading -- 2. Description of Related Art -- at line 6 on page 2 (Before the start of the second paragraph).
- iv. Add the heading -- BRIEF SUMMARY OF THE INVENTION -- at the top of page 6 (before line 1).
- v. Add the heading -- BRIEF DESCRIPTION OF THE DRAWINGS -- at line 25 on page 9.
- vi. Add the heading -- DETAILED DESCRIPTION OF THE INVENTION -- at line 14 on page 10.
- c. The claims are amended as follows:
 - vii. Claim 48 is amended as follows:
- Claim 48. A method for controlling network devices via a home network, the network devices being connected to said home network via different protocol standards, comprising:

simultaneously displaying generated generating icons of the network devices having a plurality of functions regarding a reproducing and/or recording of an audio/video signal, icons of



a plurality of services provided by each device grouped according to the type of services

provided icons of all services corresponding to the devices, and menus including the functions which are operable with the associated network device or service;

at least partially displaying the generated icons with a hierarchical structure so as to show a relationship of network connections of the network devices in the home network;

receiving a selection of a network device or a service by a user selecting one of the displayed icons;

selectively displaying the menu of a selected network device or service, the menu including the functions which are operable with the selected network device or service;

receiving a selection of a function in the selectively displayed menu; and controlling the network device or service to execute the selected function based on a respective one of the protocol standards,

wherein the execution of the selected function results in a data stream of an audio/video signal stored in a providing network device being sent from the providing network device to the selected network device or to a device capable of receiving said data stream via the home network; and

receiving a user selection resulting from a dragging of one of the displayed icons of the plurality of services provided by a corresponding network device and a dropping of the icon on an icon of another network device to perform the service corresponding to the dragged and dropped icon on the another network device.

viii. Claim 51 is amended as follows:



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Claim 51. The method according to claim 50 48, wherein at least partially displaying the icons with a hierarchical structure further includes organizing the icons according to the kind of

sub-networks connected to said network.

ix. Claim 55 is amended as follows:

Claim 55. A controller including a man-machine interface for controlling network devices via a home network, the network devices being connected to said home network via different protocol standards, comprising:

means for <u>simultaneously displaying generated</u> generating icons of the network devices having a plurality of functions regarding a reproducing and/or recording of an audio/video signal, icons of a plurality of services provided by each device grouped according to the type of services provided icons of all services corresponding to the devices, and menus including the functions which are operable with the associated network device;

means for at least partially displaying the generated icons with a hierarchical structure so as to show a relationship of network connections of the network devices in the home network;

means for receiving a selection of a network device or service by a user selecting one of the displayed icons;

means for selectively displaying the menu of a selected network device or service, the menu including the functions which are operable with the selected network device or service; means for receiving a selection of a function in the selectively displayed menu; and



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means for controlling the network device or service to execute the selected function based on a respective one of the protocol standards,

wherein the execution of the selected function results in a data stream of an audio/video signal stored in a providing network device being sent from the providing network device to the selected network device or to a device capable of receiving said data stream via the home network; and

means for receiving a user selection resulting from a dragging of one of the displayed icons of the plurality of services provided by a corresponding network device and a dropping of the icon on an icon of another network device to perform the service corresponding to the dragged and dropped icon on the another network device.

x. Claim 58 is amended as follows:

Claim 58. The controller according to claim <u>57</u> 55, wherein means for at least partially displaying the icons with a hierarchical structure further includes means for organizing the icons according to the kind of sub-networks connected to said network.

xi. Claim 62 is amended as follows:

Claim 62. A computer readable <u>storage</u> medium having computer readable program code stored thereon for causing a computer to provide a man-machine interface for controlling network devices via a home network, the network devices being connected to said home network



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via different protocol standards, the computer readable storage medium comprising executable instructions that cause a computer to:

simultaneously displaying generated generate icons of the network devices having a plurality of functions regarding a reproducing and/or recording of an audio/video signal, icons of a plurality of services provided by each device according to the type of services provided, and menus including the functions which are operable with the associated network device or service;

at least partially display the generated icons with a hierarchical structure so as to show a relationship of network connections of the network devices in the home network;

receive a selection of a network device or service by a user selecting one of the displayed icons;

selectively display the menu of a selected network device or service, the menu including the functions which are operable with the selected network device or service;

receive a selection of a function in the selectively displayed menu; and control the network device or service to execute the selected function based on a respective one of the protocol standards,

wherein the execution of the selected function results in a data stream of an audio/video signal stored in a providing network device being sent from the providing network device to the selected network device or to a device capable of receiving said data stream via the home network; and



receive a user selection resulting from a dragging of one of the displayed icons of the plurality of services provided by a corresponding network device and a dropping of the icon on an icon of another network device to perform the service corresponding to the dragged and dropped icon on the another network device.

xii. Claim 63 is amended as follows:

Claim 63. A method for <u>providing a man-machine interface for</u> controlling network devices via a home network, the network devices being connected to said home network via different protocol standards, comprising:

simultaneously displaying generated generating icons of the network devices having a plurality of functions regarding a reproducing and/or recording of an audio/video signal, icons of a plurality of services provided by each device grouped according to the type of services provided, or to a device capable of receiving said data stream and menus including the functions which are operable with/by the associated network device/service;

at least partially displaying the generated icons with a hierarchical structure so as to show a relationship of network connections of the network devices in the home network;

receiving a selection of a network device or service by a user selecting one of the displayed icons;

selectively displaying the menu of a selected network device or service, the menu including the functions which are operable with[[/by]] the selected network device/service; receiving a selection of a function in the selectively displayed menu; and



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controlling the network device <u>or service</u> to execute the selected function based on a the respective <u>one</u> of the protocol standards standard,

wherein the execution of the selected function results in a data stream of an audio/video signal stored in a providing network device being sent from the providing network device to the selected network device or to a device capable of receiving said data stream via the home network; and

receiving a user selection resulting from a dragging of one of the displayed icons of the plurality of services provided by a corresponding network device and a dropping of the icon on an icon of another network device to perform the service corresponding to the dragged and dropped icon on the another network device.

xiii. Claim 66 is amended as follows:

Claim 66. The method according to claim 65 63, wherein at least partially displaying the icons with a hierarchical structure further includes organizing the icons according to the kind of sub-networks connected to said network.

Allowable Subject Matter

5. Claims 48-69 are allowed.



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6. The following is an examiner's statement of reasons for allowance: The present invention teaches controlling various kinds of home network devices via a man-machine interface. Each of the independent claims identifies the distinct feature of receiving a user selection resulting from a dragging of one of the displayed icons of the plurality of services provided by a corresponding network device and a dropping of the icon on an icon of another network device to perform the service corresponding to the dragged and dropped icon on the another network device. The closest prior art, Microsoft® Windows (hereinafter "Windows"), copyright 1998 (Screenshot 1) and Wendorf et al. U.S. Patent 7,257,821 (hereinafter "Wendorf") teach an interface that displays a hierarchical view of home devices connected to a home network. In the case of the Windows reference, Windows teaches generating icons of the network devices having a plurality of functions regarding a reproducing and/or recording of an audio/video signal and menus including the functions which are operable with the associated network devices (Screenshot 2 shows the display of a plurality of icons representing devices that are connected and available to the computer network, for example, an Audio CD player that is capable of reproducing/playing audio CDs); at least partially displaying the generated icons with a hierarchical structure so as to show a relationship of network connections of the network devices in the network (the icons representing the devices are shown in a hierarchical tree display in Screenshot 2; each of the devices have a menu of available functions associated with it, as shown in Screenshot 3, that can be shown by right-clicking on the device icon); receiving a selection of a network device by a user selecting one of the displayed icons (for example, selection of the Audio CD device icon, as shown in Screenshots 3 and 4); selectively displaying the menu of a selected network device, the menu including the functions which are operable with the selected network device (a menu of



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available functions such as "Play" are displayed upon user selection via right-clicking the corresponding device icon, as shown in Screenshots 3 and 4); receiving a selection of a function in the selectively displayed menu (users can select any of the functions displayed in the menu shown in Screenshot 3, such as the "Play" function); and controlling the network device to execute the selected function (the network device, i.e. CD player will execute the function of the playing the CD upon selection of the "Play" function in the menu shown in Screenshot 3), wherein the execution of the selected function results in a data stream of an audio/video signal stored in a providing network device being sent from the providing network device to the selected network device via the network (upon user selection of the "Play" function, the selected network device of the Audio CD player will play the data stream, i.e. a particular track selected on the providing network device, i.e. the computer, as shown in Screenshots 6-8). In the case of the Wendorf reference, Wendorf teaches controlling home devices connected to a home network based on a respective one of different protocol standards (the communication system of the inhome network operates the in-home devices using predetermined home protocols) (Wendorf: column 1: lines 40-49), and wherein execution of the selected function results in a data stream of an audio/video signal stored in a providing network device being sent from the providing network device to the selected network device via the home network (a user can program his home VCR from his remote office PC, i.e. data signals are sent from the user's office to the user's home network) (Wendorf: column 1, lines 12-17). However, the prior art fail to teach performing a selected service that is grouped according the type of service provided by one network device on another displayed network device via a drag and drop operation; therefore, the prior art fails to teach the limitation of receiving a user selection resulting from a dragging of one



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of the displayed icons of a plurality of services provided by a corresponding network device and a dropping of the icon on an icon of another network device to perform the service corresponding to the dragged and dropped icon on the another network device. Thus, the prior art fails to anticipate or render the above limitations obvious.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TING ZHOU whose telephone number is (571)272-4058. The examiner can normally be reached on Monday - Friday 8:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu Vu can be reached on (571) 272-4057. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ting Zhou/ Primary Examiner, Art Unit 2173

